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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 11/13/2003 10/712,796 Ulrich Dzialas 22709 7864 EXAMINER 03/07/2005 THE FIRM OF KARL F ROSS **RAO, G NAGESH** 5676 RIVERDALE AVENUE ART UNIT PAPER NUMBER **PO BOX 900** RIVERDALE (BRONX), NY 10471-0900 1722

DATE MAILED: 03/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		<u> </u>	
·	Application No.	Applicant(s)	
Office Action Summary	10/712,796	DZIALAS ET AL.	
	Examiner	Art Unit	
	G. Nagesh Rao	1722	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).			
Status			
1) Responsive to communication(s) filed on			
•	This action is FINAL . 2b) This action is non-final.		
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is			
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.			
Disposition of Claims			
4) Claim(s) is/are pending in the application.			
4a) Of the above claim(s) is/are withdrawn from consideration.			
5) Claim(s) is/are allowed.			
6) Claim(s) is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/or election requirement.			
Application Papers			
9) The specification is objected to by the Examiner.			
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119			
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).			
a)⊠ All b)□ Some * c)□ None of:			
1. Certified copies of the priority documents have been received.			
2. Certified copies of the priority documents have been received in Application No			
3. Copies of the certified copies of the priority documents have been received in this National Stage			
application from the International Bureau (PCT Rule 17.2(a)).			
* See the attached detailed Office action for a list of the certified copies not received.			
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO 413)	
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P 6) Other:	atent Application (PTO-152)	

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1. Claim 1 rejected under 35 U.S.C. 102(b) as being anticipated by Benenati (US Patent No. 5,352,109).

Benenati 109 teaches an injection molding apparatus comprised of an elongated nozzle for conveying materials such as hot fluid thermoplastic resin. The nozzle body comprises of two channels (Column 5 Line 66 and Figure 8 Element 33) that read on as a type of passage for molten materials, an outlet point near the pointed tip (Figure 8 Element 34), a plurality of bores within the nozzle body (Column 6 Lines 8-12 and Figure 10 Elements 11 and 36), which reads on multiplicity of bores, whereupon the bores can be filled with either a fluid or rod member as a means for transferring heat along the shank of the nozzle (Column 6 Lines 8-12 and 27-33), which reads on members shaped to fit into said bores.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 2. Claims 2-15 rejected under 35 U.S.C. 103(a) as being unpatentable over Benenati (US Patent No. 5,352,109) in view of Buehning (US Patent No. 5,632,938).

From the aforementioned, Benenati 109 teaches injection molding apparatus comprised of an elongated nozzle for conveying materials such as hot fluid thermoplastic resin. Unlike the claimed invention Benenati 109 lacks the following

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teachings: 1) guide flanks and 2) passageways for compressed air flow at an acute angle.

In a method of polymer processing, similar to that of Benenati 109, Buehning 938 teaches an apparatus with a melt-blowing die having a presettable air-gap that is generally used in polymer processing, where there are guide-flanks as seen in figure 4 elements 26 and 58 where they are at an acute angle as indicated also in Column 8 Lines 59-65, where the internal angle of the nosepiece is between 45 to 90 degrees (falls within range of acute angle by definition). Buehning 938 also teaches plurality of passageways for compressed air flow as indicated in figure 4 elements 27 and 28 which are air knives that allow for air to flow through passages 54 and 55 (Column 7 Lines 17-31 and 8 Lines 45-50). The air flow is there to cool down the resin flowing out of the melt-blown orifice tip (Figure 4 Elements 26 and 71).

It would be obvious to one skilled in the art to modify the Benenati 109 nozzle device with the teachings Buehning 938 melt-blowing apparatus, such that the nozzle device has the ability to have direct air flow towards its nozzle tip, allowing the heated material flowing through to be guided towards the tip and the material to be cooled upon contact. This would provide for control over the rate of

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production of material processed through the nozzle tip enabling for rapid and ease of production.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to G. Nagesh Rao whose telephone number is (571) 272-2946. The examiner can normally be reached on 9AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Benjamin Utech can be reached on (571) 272-1137. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pairdirect.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

BENJAMIN L. UTECH

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